



SRI MANAKULA VINAYAGAR  
ENGINEERING COLLEGE  
(AN AUTONOMOUS INSTITUTION)



*DEPARTMENT OF CIVIL ENGINEERING*

# *CIVILIZERS CLUB ANNUAL REPORT*

*(Academic Year: 2024 to 2025)*



Submitted by  
*Mrs.J.Jayapriya*  
Assistant Professor  
Faculty Coordinator



## Preface

The Civilizers Club of the Department of Civil Engineering, Sri Manakula Vinayagar Engineering College, serves as a dynamic platform to nurture innovation, technical competence, and collaborative learning among students. The club is established with the objective of bridging the gap between theoretical knowledge and practical implementation in the diverse domains of structural engineering, transportation engineering, geotechnical engineering, environmental engineering, and construction management. The club actively encourages students to explore emerging trends in civil engineering through hands-on workshops, site visits, technical training programs, expert lectures, project development activities, model-making competitions, technical quizzes, and interdisciplinary initiatives. By fostering creativity, analytical thinking, problem-solving skills, and teamwork, the club aims to prepare students to meet the challenges of modern infrastructure development and sustainable construction practices. The effective functioning of the club is supported by a dedicated team of office bearers, including the President, Vice President, Treasurer, and Technical Head, who work collectively with enthusiastic club members to plan, organize, and execute various technical and co-curricular activities. Their leadership and commitment play a crucial role in ensuring the successful achievement of the club's objectives. Through continuous learning, innovation, research-oriented activities, and industry interaction programs, the Civilizers Club strives to develop technically sound, ethically responsible, and professionally competent civil engineers. The club remains committed to contributing to the overall academic excellence, infrastructure innovation, and technological advancement of the institution.



Faculty Coordinator  
Mrs.J.Jayapriya



HoD/CIVIL  
Dr. S.Sundararaman



IQAC Coordinator  
Dr. Arivalagar A A



Director Cum Principal  
Dr.V.S.K. Venkatachalapathy

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## ABOUT THE INSTITUTE

Sri Manakula Vinayaga Educational Trust was founded to provide quality and affordable education to the weaker sections of society. The trust established Sri Manakula Vinayagar Engineering College (SMVEC) in 1999. SMVEC is an autonomous institution affiliated to Pondicherry University. It offers 13 undergraduate, 8 postgraduate and 11 Research programs in engineering. SMVEC has been accredited by NAAC with “A” grade and NBA. The institution is also accredited by TATA consultancy services. The college has a good placement record with students getting job offers from top companies in India and abroad. SMVEC students have won many awards and accolades for their academic achievements. To be globally recognized for excellence in quality education, innovation and research for the transformation of lives to serve the society.

### Vision

- To nurture the cornerstone of excellence in engineering education and drive innovation by seamlessly integrating the fundamentals of Science and Humanities

### Mission

**M1: Quality Education :** To provide comprehensive academic system that amalgamates the cutting edge technologies with best practices.

**M2: Research and Innovation :** To foster value-based research and innovation in collaboration with industries and institutions globally for creating intellectuals with new avenues.

**M3: Employability and Entrepreneurship :** To inculcate the employability and entrepreneurial skills through value and skill based training.

**M4: Ethical Values :** To instill deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.



## ABOUT THE DEPARTMENT

The Department of Civil Engineering is a premier department that offers high-quality UG, PG, and Ph.D. programs. The UG program B.Tech – Civil Engineering is accredited by the National Accreditation Board, AICTE–New Delhi, and has a strong placement record with graduates widely recognized by leading construction, infrastructure, and consultancy firms. The department's alumni are highly sought-after by employers in the civil engineering and infrastructure sector. Our department contributes significantly to achieving national development goals through a strong commitment to sustainable infrastructure, innovative construction practices, and responsible engineering solutions, meeting the demands of a rapidly developing and urbanizing world.

### Vision

We envision a world where the civil engineering department will be a home to an intellectual community with good quality education embedded with practical knowledge by inculcating research, strong social commitment and ethical values from its students, staffs and alumni.

### Mission

**Quality Education:** To fulfill the requirements of construction industry, Civil Engineering profession and rural community through dissemination of technical services.

**Practical Knowledge:** To impart quality and real-time education to the students with the knowledge & skills needed for Civil Engineering practice

**Work Efficiency:** To encourage research, development and consultancy through sustained interaction with industry & research organization.

**Societal issues:** To develop graduates to compete at the global level to deal with modern issues.

**Moral & Ethical:** To insist ethical values and professionalism among the students.

### Programmes offered

- B.Tech - Civil Engineering
- Ph.D - Civil Engineering



*“Shaping a stronger world through structures, sustainability, and smart infrastructure.”*

## ABOUT CIVILIZERS CLUB

The Civilizers Club from the Department of Civil Engineering is dedicated to exploring innovative solutions in infrastructure development, sustainable construction, and smart urban systems under the theme: "Building a Sustainable and Resilient Future through Innovation in Civil Engineering." The club serves as a dynamic platform where students transform theoretical knowledge into practical applications through real-time projects, field studies, and technical activities. From structural design and transportation planning to environmental sustainability and smart city concepts, Civilizers Club activities span diverse domains of civil engineering. Through workshops, site visits, technical competitions, seminars, and collaboration with industry professionals, the club enhances technical expertise, leadership qualities, teamwork, and problem-solving skills. The Civilizers Club aims to nurture competent civil engineers who can contribute effectively to modern infrastructure development and nation-building.

### Objectives of Civilizers Club

The primary goal of civilizers club are as follows:

- To bridge the gap between theoretical knowledge and practical application in civil engineering.
- To enhance technical skills through workshops, seminars, site visits, and model-making activities.
- To promote innovation and research in areas such as structural, geotechnical, environmental, and transportation engineering.
- To develop problem-solving, analytical thinking, and teamwork among students.



## OFFICE BEARERS

The Civilizers Club is led by a dedicated team of office bearers who play a vital role in driving the club's activities and fostering a culture of innovation. The team typically includes a President, Vice President, Secretary, Treasurer, and Technical Leads, each bringing unique skills and responsibilities to the table. These office bearers coordinate workshops, manage resources, mentor junior members, and oversee project development. Their leadership ensures smooth operation of the club while encouraging creativity, collaboration, and hands-on learning in the field of robotics. Through their efforts, the club continues to be a hub of technical excellence and a launchpad for future innovators.



**Mrs. J. Jayapriya**  
Assistant Professor  
Faculty Coordinator



**Lokeshwaran. V**  
President  
IV/A



**Sathish Kumar I**  
Vice President  
IV/A



**Sri Dharshini T**  
Secretary  
II/A



**Varsha S B**  
Member  
II/A



**Govarthan D**  
Member  
II/A

## LIST OF EVENTS

S. No	Title of the Events
01	Guest Lecture on “Effective Strategies for GATE Exam Preparation”
02	Model Making of Truss Bridge
03	ConvertX
04	Guest Lecture on “Civil Engineering Opportunities in State and Central Government”
05	Hands on training on “Non-Destructive Testing on Concrete”
06	IS Codes for Ciivl Engineering Structures
07	Prefabricated Structures – An Overview”
08	Bridge Craft
09	Making models of Isometric view objects
10	Digital Surveying and Mapping Techniques (Hands on Training)
11	Seminar on “A Day as a Structural Engineer”
12	AI in Civil Engineering: The Future of Smart Design and Construction
13	Model making of 3D residential building

## GUEST LECTURE ON “EFFECTIVE STRATEGIES FOR GATE EXAM PREPARATION”

The Civilizers organized an International Seminar titled “Effective Strategies for GATE Exam Preparation” in virtual mode at the auditorium. The session featured an eminent academic expert as the keynote speaker, who provided comprehensive guidance on preparing for the Graduate Aptitude Test in Engineering (GATE) examination. During the seminar, the speaker shared valuable insights into understanding the GATE examination pattern, syllabus analysis, and subject-wise preparation techniques. Emphasis was placed on building strong conceptual foundations, effective time management, and strategic revision planning. The session also highlighted the importance of solving previous years’ question papers, taking mock tests, and analyzing performance to identify strengths and weaknesses. Additionally, the seminar explored various career opportunities available through GATE, including admissions to prestigious institutions such as the Indian Institutes of Technology (IITs), National Institutes of Technology (NITs), and opportunities in Public Sector Undertakings (PSUs). The resource person also discussed higher education prospects, research pathways, and job opportunities in both public and private sectors. The seminar aimed to enhance students’ awareness and confidence regarding GATE preparation strategies. It encouraged active interaction with the speaker, enabling students to clarify doubts and gain practical guidance for effective exam preparation. The session proved to be highly informative, motivational, and beneficial for aspiring GATE candidates.

- Total Number of Participants : 68
- Year of students: II, III and IV
- Venue : Seminar Hall , SMVEC
- Date : 15/07/2024
- Event Coordinator: Dr. V. Murugappan
- Mode of seminar: Offline

### Objective of the Seminar

- To create awareness among Civil Engineering students about the GATE 2025 examination pattern and syllabus.
- To guide students on effective and systematic strategies for GATE exam preparation.
- To motivate students to pursue higher studies, PSU careers, and research opportunities through GATE.
- To provide insights into time management, subject prioritization, and revision techniques.

### Outcome of the Seminar

- Participants learned practical preparation strategies, such as structured study planning, regular practice, and mock test analysis.
- Students were motivated to adopt a focused and disciplined approach towards GATE 2025 Preparation

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**Department of Civil Engineering**  
**CLUB ACTIVITIES-CIVILIZERS CLUB**  
**CIRCULAR**

SMVEC / CIVIL / 2024-2025 / EVENT / 01

Date: 12.07.2024

The Department of Civil Engineering and Civilizers club is planned to conduct a Guest Lecture on “Effective Strategies for GATE Exam Preparation” for the benefit of 2<sup>nd</sup>, 3<sup>rd</sup> and Final year Civil Engineering students on 15.07.2024 by **Dr.P.Dinesh**, Assistant Professor (Grade II), Civil Engineering Department, NIT Silchar, and India. The guest lecture is planned to be conducted in our Engineering Block Seminar Hall in 3<sup>rd</sup> floor from 11.00 am and students are instructed to attend the session without fail.

Club Activity Incharge  
(Mrs. J. Jayapriya)

Head of the Department  
(Dr.S.Sundararaman)

**Copy to:**

- 1) All Faculties
- 2) 2<sup>nd</sup> and 3<sup>rd</sup> year Class Representative

## POSTER

 **SRI MANAKULA VINAYAGAR**  
ENGINEERING COLLEGE  
(AN AUTONOMOUS INSTITUTION)  
(APPROVED BY AICTE, NEW DELHI AND AFFILIATED TO PONDICHERRY UNIVERSITY)  
(ACCREDITED BY NBA-AICTE, NEW DELHI, ACCREDITED BY NAAC WITH "A" GRADE)  
MADAGADIPET, PUDUCHERRY - 605 107



**DEPARTMENT OF CIVIL ENGINEERING**

with

 **Indian Concrete Institute (ICI), Puducherry Centre**

Jointly Organizes

A Guest Lecture on

**Effective Strategies for Gate Exam Preparation**



**Time : 11.00am**  
**Date : 15/07/2024**

**Venue: Seminar Hall,  
SMVEC**

**Dr. P. Dinesh,**  
Assistant Professor (Grade-II),  
Department of Civil Engineering,  
National Institute of Technology Silchar, India

 **MHRD'S  
INNOVATION CELL**  
(GOVERNMENT OF INDIA)

 **INSTITUTION'S  
INNOVATION  
COUNCIL**  
(Ministry of HRD Initiative)

 **NAAC**  
**INTERNAL QUALITY ASSURANCE CELL**

PHOTO GALLERY



## MODEL MAKING OF TRUSS BRIDGE

The Civilizers Club organized a hands-on activity titled “Model Making of Truss Bridge” in the seminar hall to provide students with practical exposure to structural design and bridge engineering concepts. The session focused on the fundamentals of truss structures, including load distribution, tension and compression members, and the role of triangular configurations in stability. Students designed and constructed truss bridge models using basic materials, with emphasis on strength, symmetry, joint stability, and efficient material use. The event concluded with model testing and an interactive discussion on design improvements and real-world applications, making the session both informative and engaging.

- Total Number of Participants : 39
- Year of students: II and III
- Date: 27/07/2024
- Venue : Seminar Hall, SMVEC
- Event Coordinator: Dr. V.Murugappan
- Mode of activity: Offline

### Objective of the Activity

- To understand structural principles such as tension, compression, load distribution,
- To enhance practical and problem-solving skills through hands-on model construction
- To encourage teamwork and innovation by engaging students in collaborative design

### Overview of the Activity

The “Model Making of Truss Bridge” activity provided students with hands-on exposure to structural engineering concepts. It focused on truss design principles such as load distribution, stability, and triangular frameworks. Students constructed bridge models using basic materials, applying engineering mechanics concepts while enhancing teamwork, creativity, and analytical skills.

### Outcome of the Event

Students gained practical knowledge of robotics concepts through direct interaction with the Line Gripper Bot.

Participants successfully assembled and operated the bot, improving their technical confidence and skills.

The session sparked curiosity and enthusiasm among first-year students toward robotics and automation.

The activity encouraged teamwork and peer learning, fostering a collaborative learning environment within the club.

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**Department of Civil Engineering**  
**CLUB ACTIVITIES - CIVILIZERS CLUB**  
**CIRCULAR**

SMVEC / CIVIL / 2024-2025 / EVENT / 02

Date: 24.07.2024

The Department of Civil Engineering and Civilizers club is conducting a "Model making of Truss Bridge" and at our Classroom on 27.07.2024 at 2.00 am to 4.50 pm. The II and III year B.Tech (Civil Engineering) students are asked to attend the session.

Club Activity Incharge  
(Mrs. J. Jayapriya)

Head of the Department  
(Dr.S.Sundararaman)

**Copy to:**

- 1) All Faculties
- 2) 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> Year Class Representative

PHOTO GALLERY



GPS Map Camera  
Puducherry, PY, India  
Villianur Taluk, Puducherry, 605107, PY, India  
Lat 11.908805, Long 79.653936  
07/27/2024 04:36 PM GMT+05:30  
Note : Captured by GPS Map Camera

## CONVERT X

The Civilizers Club has organized a “Convert X” for the Second-year and Third-year students to make them understand the significance of Civil Engineering in real-world applications.

- Total Number of Participants : 39
- Year of students: II And III
- Date: 10/08/2024
- Venue : Seminar Hall, SMVEC
- Mode of Activity: Offline

### Objective of the Activity

- To understand the fundamental principles involved in converting variable X using appropriate mathematical or technical methods.
- To develop analytical and problem-solving skills by applying systematic conversion procedures to practical examples.
- To enhance technical accuracy and conceptual clarity in handling conversion-based problems across engineering applications.

### Overview of the Activity

The “Convert X” session organized by the Robotics and Automation Club aimed to provide students with a clear understanding of conversion techniques used in engineering applications. The program focused on the principles, formulas, and methods required to transform a variable X into the desired format accurately. Participants learned to apply systematic approaches, analyze input parameters, and solve problems efficiently. The session also emphasized practical examples, real-world applications, and interactive discussions to strengthen conceptual clarity, analytical skills, and technical competence.

### Outcome of the Activity

- Students will be able to accurately convert variable X using the appropriate methods and techniques.
- Participants will enhance their problem-solving and analytical skills through practical application of conversion processes.
- Students will gain conceptual clarity and technical confidence in handling conversion-related tasks in engineering contexts.

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**Department of Civil Engineering****CLUB ACTIVITIES - CIVILIZERS CLUB****CIRCULAR**

SMVEC / CIVIL / 2024-2025 / Event / 03

Date: 07.08.2024

The Department of Civil Engineering and Civilizers club is conducting a “ConvertX” at our Classroom on 10.08.2024 at 2.00 am to 4.50 pm. The II and III year B.Tech (Civil Engineering) students are asked to attend the session.

Club Activity Incharge  
(Mrs. J. Jayapriya)

Head of the Department  
(Dr.S.Sundararaman)

Copy to:

- 1) All Faculties
- 2) 2<sup>nd</sup> and 3<sup>rd</sup> Year Class Representative

PHOTO GALLERY



## GUEST LECTURE ON “CIVIL ENGINEERING OPPORTUNITIES IN STATE AND CENTRAL GOVERNMENT”

The Civilizers Club organized a guest lecture titled “Civil Engineering Opportunities in State and Central Government” to guide students on public sector career prospects. An experienced speaker discussed career paths, recruitment procedures, eligibility criteria, and job roles in organizations such as PWD, NHAI, and other government services. The session also covered exam patterns and preparation strategies for competitive exams like ESE. The lecture enhanced students’ awareness of government opportunities and motivated them to prepare effectively for careers in the public sector.

- Total Number of Participants : 68
- Year of students: I,II And III
- Date: 26/08/2024
- Venue : Seminar Hall, SMVEC
- Mode of Activity: Offline

### Objective of the Activity

- To inform students about career opportunities for civil engineers in state and central government organizations.
- To guide students on preparation strategies for competitive exams and selection processes like the ESE.
- To enhance understanding of job roles, responsibilities, and career growth in public sector engineering services.

### Outcome of the Activity

- Students will be able to identify various civil engineering career opportunities in state and central government organizations.
- Participants will understand eligibility criteria, recruitment procedures, and job roles in public sector engineering services.
- Students will gain insight into preparation strategies for competitive exams such as the Engineering Services Examination (ESE).

## POSTER



SRI MANAKULA VINAYAGAR  
ENGINEERING COLLEGE  
(AN AUTONOMOUS INSTITUTION)



**SILVER JUBILEE CELEBRATION**

**DEPARTMENT OF CIVIL ENGINEERING**

*In Association with*

**Indian Concrete Institute (ICI),  
Puducherry Centre**

*Organizes*

**Guest Lecture on**

**“Government Opportunities for Civil Engineering  
Graduates”**

**Time: 03:30 PM**  
**Date: 26/08/2024**



**Venue: Seminar Hall,  
SMVEC**

**Er. K. Vijay,**  
Assistant Engineer, PWD, Vikravandi

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**Department of Civil Engineering**  
**CLUB ACTIVITIES - CIVILIZERS CLUB**  
**CIRCULAR**

SMVEC / CIVIL / 2024-2025 / EVENT / 04

Date: 22.08.2024

The Department of Civil Engineering and Civilizers club is conducting a Guest Lecture on “**Government Job Opportunities for Civil Engineering Graduates**” for the benefit of Third and Final year Civil Engineering students on 26.08.2024 by Er. K. Vijay, Assistant Engineer, PWD, Vikravandi, Tamil Nadu, and India. The guest lecture is planned to be conducted in our Engineering Block Seminar Hall in 3<sup>rd</sup> floor from 3.30 pm and students are instructed to attend the session without fail.

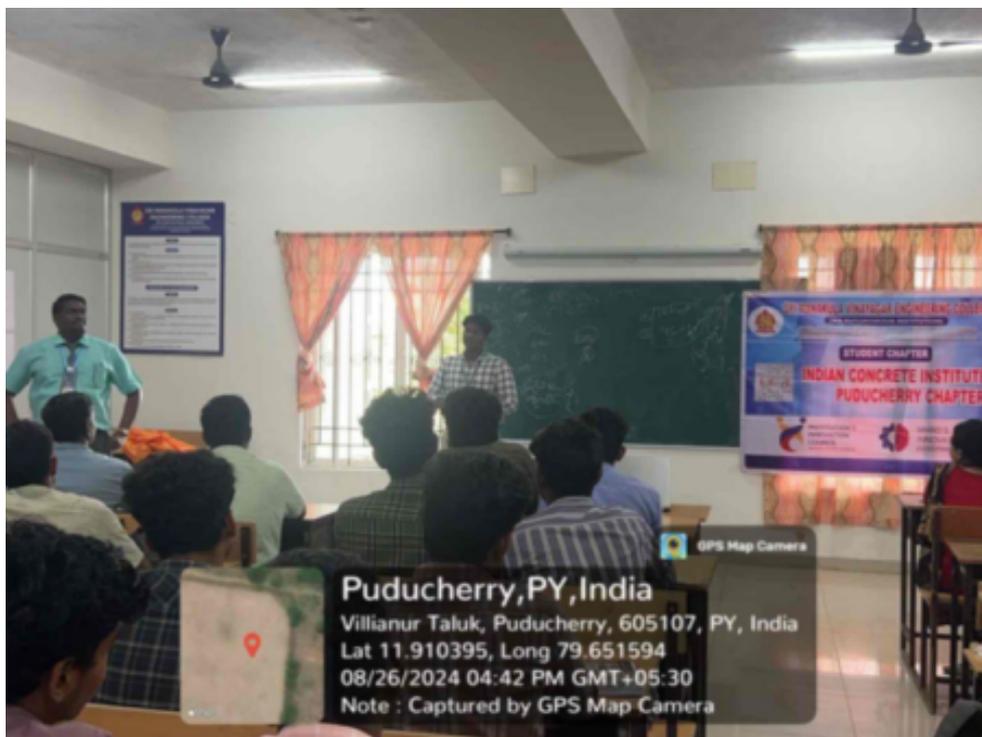
Club Activity Incharge  
(Mrs. J. Jayapriya)

Head of the Department  
(Dr.S.Sundararaman)

**Copy to:**

- 1) All Faculties
- 2) 2<sup>nd</sup>, 3<sup>rd</sup> and final Year Class Representative

PHOTO GALLERY



## NON DESTRUCTIVE TESTING ON CONCRETE

The club organized a technical session on “Non-Destructive Testing (NDT) on Concrete” to provide students with both theoretical and practical knowledge of evaluating concrete structures without causing damage. The session covered key NDT techniques such as rebound hammer test, ultrasonic pulse velocity test, and penetration resistance methods, along with their principles, applications, advantages, and limitations. Practical demonstrations and case studies helped students understand real-world applications in structural health monitoring. The program enhanced students’ knowledge of concrete testing and promoted analytical and hands-on learning.

- Total Number of Participants : 68
- Year of students: II, III AND IV
- Date: 03/09/2024
- Venue : Seminar Hall, SMVEC
- Mode of Activity: Offline

### Objective of the Activity

- To introduce students to non-destructive testing methods for evaluating concrete quality and structural integrity
- To develop practical and analytical skills through demonstrations and case studies of NDT techniques.
- To create awareness of real-world applications of NDT in civil engineering projects and structural health monitoring.

### Outcome of the Activity

- Participants will understand the principles, advantages, and limitations of each non-destructive testing method.
- Students will gain practical knowledge of evaluating concrete quality and detecting structural defects without damaging the material.
- Participants will be able to relate theoretical concepts to real-world civil engineering applications, enhancing their technical competence.

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(AN AUTONOMOUS INSTITUTION)



**Department of Civil Engineering**  
**CLUB ACTIVITIES - CIVILIZERS CLUB**  
**CIRCULAR**

SMVEC / CIVIL / 2024-2025 / EVENT / 05

Date: 01.09.2024

The Department of Civil Engineering and Civilizers club is conducting Hands-on Training session on “**Non-Destructive Testing on Concrete**” for the benefit of Second and Third Year Civil Engineering students on 03.09.2024 by Er. P. Ashok Kumar, a Civil Engineering Consultant, Puducherry. The guest lecture is planned to be conducted in our Engineering Block Seminar Hall in 3<sup>rd</sup> floor from 10.30 am to 12.30 pm and students are instructed to attend the session without fail.

Club Activity Incharge  
(Mrs. J. Jayapriya)

Head of the Department  
(Dr.S.Sundararaman)

**Copy to:**

- 3) All Faculties
- 4) 2<sup>nd</sup> and 3<sup>rd</sup> Year Class Representative

## POSTER

 **SRI MANAKULA VINAYAGAR**  
ENGINEERING COLLEGE  
(AN AUTONOMOUS INSTITUTION) 

**SILVER JUBILEE CELEBRATION**

**DEPARTMENT OF CIVIL ENGINEERING**

*In Association with*

 **Association of Consulting Civil Engineers  
(India) (ACCE), Puducherry Centre**

*Organizes*

**Hands on Training**

**“Non-Destructive Testing on Concrete”**

Time: **10:30 AM**  
Date: **03/09/2024**

Venue: **Seminar Hall,  
SMVEC**

**Er. P. Ashok Kumar,**  
M.Tech., MICI, MACCE, MIPA, MFACEAT&P  
Civil Engineering Consultant

 **MHRD'S  
INNOVATION CELL**  
(GOVERNMENT OF INDIA)

 **INSTITUTION'S  
INNOVATION  
COUNCIL**  
(Ministry of HRD Initiative)

 **NAAC**  
NATIONAL ASSOCIATION  
OF ACCREDITED COLLEGES

**INTERNAL QUALITY ASSURANCE CELL**

PHOTO GALLERY



PHOTO GALLERY



## I "IS Codes for Civil Engineering Structures"

The workshop titled "IS Codes for Civil Engineering Structures" was organized to provide students with practical knowledge of Indian Standard (IS) Codes used in structural design and construction. The session covered key codes such as IS 456, IS 800, IS 875, and IS 1893, emphasizing their application in load calculation, material specifications, and structural safety. Through examples and discussions, students gained clarity on interpreting codal provisions and applying them in real-world engineering practice.

The workshop also highlighted the importance of codal compliance in ensuring durability and public safety in infrastructure projects. It enhanced students' confidence in handling design problems as per standard engineering guidelines.

- Total Number of Participants : 39
- Year of students: II and III
- Date: 28/12/2024
- Venue : Seminar Hall, SMVEC
- Mode of Activity: Offline
- Event Coordinator: Dr. V.Murugappan

### Objective of the Activity

- To familiarize students with major IS Codes such as IS 456, IS 800, IS 875, and IS 1893.
- To develop the ability to interpret and apply codal provisions in real-time design problems.
- To understand load calculations, material specifications, and safety requirements as per IS standards.

### Outcome of the Activity

- Students gained a clear understanding of the significance and application of major IS Codes in structural design.
- Participants developed the ability to interpret codal provisions and apply them to practical engineering problems.
- Students improved their knowledge of load calculations, material specifications, and safety standards as per IS guidelines.

## CIRCULAR



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ENGINEERING COLLEGE  
(AN AUTONOMOUS INSTITUTION)



Department of Civil Engineering

**CLUB ACTIVITIES-CIVILIZERS CLUB  
CIRCULAR**

SMVEC / CIVIL / 2024-2025 / EVENT / 01

Date: 27.12.2024

The Department of Civil Engineering and Civilizers club is planned to conduct a IS Codes for Ciivil Engineering Structures for the benefit of 2<sup>nd</sup> and 3<sup>rd</sup> year Civil Engineering students on 28.12.2024 at 2.00 am to 4.50 pm. The II and III year B.Tech (Civil Engineering) students are asked to attend the session.

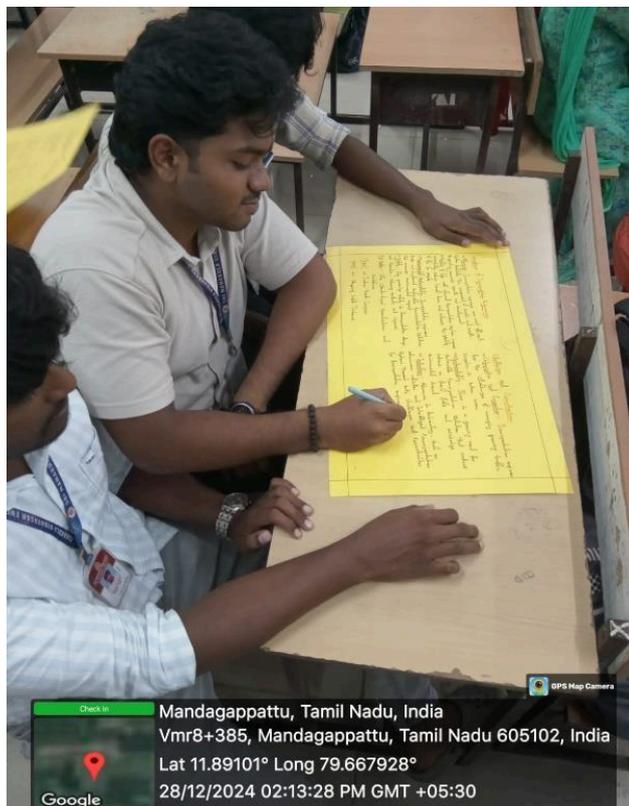
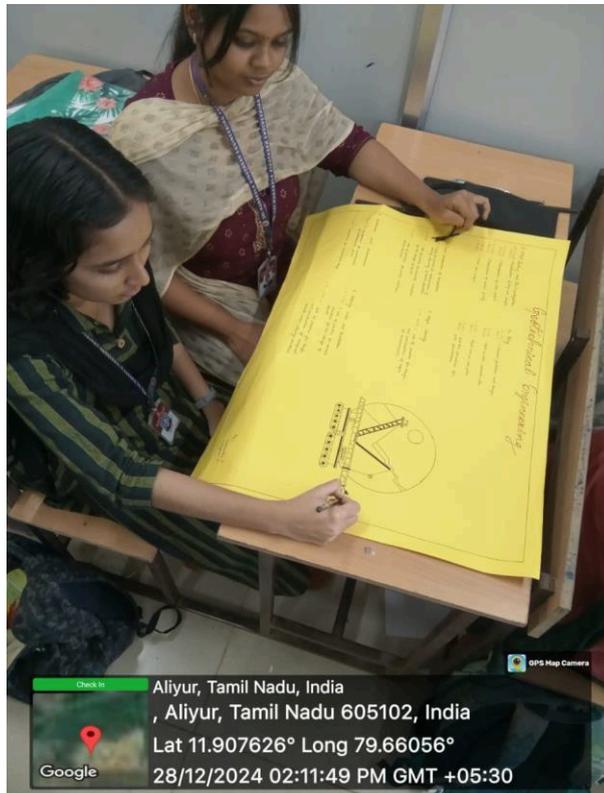
Club Activity Incharge  
(Mrs. J. Jayapriya)

Head of the Department  
(Dr.S.Sundararaman)

**Copy to:**

- 1) All Faculties
- 2) 2<sup>nd</sup> and 3<sup>rd</sup> year Class Representative

PHOTO GALLERY



## Model making of Scaffolding structures

The workshop titled “Model Making of Scaffolding Structures” was organized to provide students with practical exposure to temporary support systems used in construction. The session focused on the fundamentals of scaffolding structures, including load transfer mechanisms, stability, safety requirements, and proper bracing techniques. Students designed and constructed scaled models using basic materials to understand structural arrangement and joint connections. The workshop also emphasized the importance of safety standards, proper erection methods, and efficient material utilization in scaffolding systems. It enhanced students’ practical understanding of construction practices and improved their confidence in planning and analyzing temporary structural supports in real-world projects.

- Total Number of Participants : 52
- Year of students: II and III
- Date: 08/02/2025
- Venue : Seminar Hall, SMVEC
- Mode of Activity: Offline
- Event Coordinator: Dr. V.Murugappan

### Objective of the Activity

- To provide practical knowledge about scaffolding systems used in construction projects.
- To understand the basic components, types, and structural arrangement of scaffolding.
- To study load transfer, stability, and bracing mechanisms in temporary support structures.

### Outcome of the Activity

- Participants developed knowledge of load distribution, stability, and bracing in temporary structures.
- Students enhanced their awareness of safety measures and proper erection practices in construction sites.
- The activity improved hands-on skills, teamwork, and problem-solving abilities.
- Participants were able to relate theoretical concepts of structural mechanics to real-world construction applications.

## CIRCULAR



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**Department of Civil Engineering**  
**CLUB ACTIVITIES - CIVILIZERS CLUB**  
**CIRCULAR**

SMVEC / CIVIL / 2024-2025 / Event / 02

Date: 05.02.2025

The Department of Civil Engineering and Civilizers club is conducting a “**Model making of Scaffolding structures**” at our Classroom on 08.02.2025 at 2.00 am to 4.50 pm. The I and II year B.Tech (Civil Engineering) students are asked to attend the session.

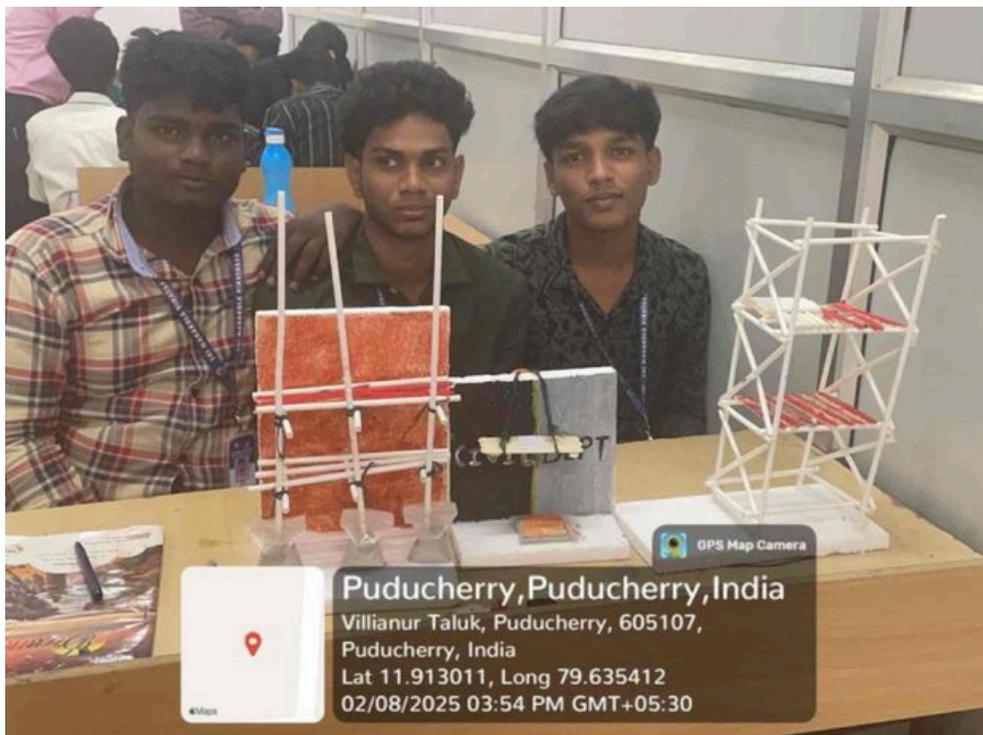
Club Activity Incharge  
(Mrs. J. Jayapriya)

Head of the Department  
(Dr.S.Sundararaman)

**Copy to:**

- 1) All Faculties
- 2) 1<sup>st</sup> and 2<sup>nd</sup> Year Class Representative

PHOTO GALLERY



## **Prefabricated Structures – An Overview**

The workshop titled “Prefabricated Structures – An Overview” was organized to provide students with fundamental knowledge about modern construction techniques involving prefabrication. The session focused on understanding the concept of factory-manufactured structural components such as precast beams, columns, slabs, and wall panels, which are assembled on-site. Emphasis was placed on advantages such as reduced construction time, improved quality control, cost efficiency, and sustainability in large-scale infrastructure projects. The workshop also highlighted the applications of prefabricated systems in residential, commercial, and industrial buildings, along with their limitations and challenges in transportation and installation. The session enhanced students’ awareness of innovative construction practices and strengthened their understanding of contemporary building technologies.

- Total Number of Participants : 64
- Year of students: I, II and III
- Date: 14/02/2025
- Venue : Seminar Hall, SMVEC
- Mode of Activity: Offline
- Event Coordinator: Dr. V.Murugappan

### **Objective of the Activity**

- To introduce students to the concept and principles of prefabricated construction.
- To understand the types and components of prefabricated structural systems.
- To study the advantages, limitations, and applications of prefabrication in modern construction.

### **Outcome of the Activity**

- Students gained a clear understanding of prefabrication techniques and structural components.
- Participants were able to identify various types and applications of prefabricated systems.
- Students understood the benefits and challenges associated with prefabricated construction.
- The session improved awareness of modern construction trends and innovative building methods.

## CIRCULAR



SRI MANAKULA VINAYAGAR  
ENGINEERING COLLEGE  
(AN AUTONOMOUS INSTITUTION)



**Department of Civil Engineering**  
**CLUB ACTIVITIES - CIVILIZERS CLUB**

**CIRCULAR**

SMVEC / CIVIL / 2024-2025 / EVENT / 03

Date: 10.02.2025

The Department of Civil Engineering and Civilizers club is conducting a “a Seminar on “Prefabricated Structures – An Overview” for the benefit of Final year Civil Engineering students on 14.02.2025 by **Dr.V.Prabakaran**, Professor, Department of Civil Engineering, Puducherry Technological University, Puducherry. The seminar is planned to be conducted in our Engineering Block Seminar Hall in 3<sup>rd</sup> floor from 1.30 pm and students are instructed to attend the session without fail.

Club Activity Incharge  
(Mrs. J. Jayapriya)

Head of the Department  
(Dr.S.Sundararaman)

**Copy to:**

- 1) All Faculties
- 2) 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> Year Class Representative

## POSTER



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(ACCREDITED BY NBA-AICTE, NEW DELHI, ACCREDITED BY NAAC WITH 'A' GRADE)  
MADAGADIPET, PUDUCHERRY - 605 107



**SILVER JUBILEE CELEBRATION**

**DEPARTMENT OF CIVIL ENGINEERING**

*In Association with*



**The Institution of Engineers (India)**  
**Puducherry State Centre**

**Organizes**

**Seminar on**

**“Prefabricated Structures- An Overview”**



**Time: 01:30 PM**  
**Date: 14/02/2025**

**Venue: Seminar Hall,**  
**SMVEC**

**Dr.V.PRABAKARAN, Ph.D**  
Professor, Department of Civil Engineering,  
Puducherry Technological University, Puducherry

PHOTO GALLERY

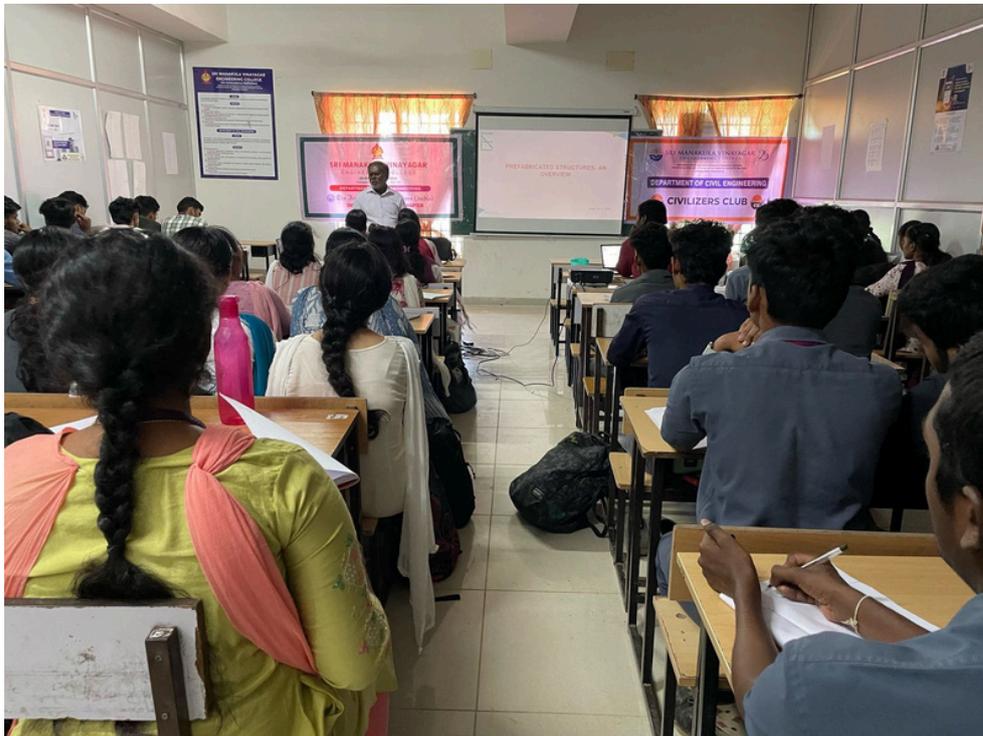


PHOTO GALLERY



## Bridge Craft

The workshop titled “Bridge Craft” was organized to provide students with practical exposure to bridge engineering concepts through creative model development. The session focused on understanding different types of bridges, structural components, load transfer mechanisms, and stability principles. Students designed and constructed bridge models using basic materials, applying concepts of tension, compression, and structural efficiency. The activity emphasized structural strength, proper joint connections, symmetry, and efficient material utilization. It encouraged innovation, teamwork, and analytical thinking while helping students relate theoretical knowledge to real-world bridge construction practices.

- Total Number of Participants : 39
- Year of students: II and III
- Date: 22/02/2025
- Venue : Seminar Hall, SMVEC
- Mode of Activity: Offline
- Event Coordinator: Dr. V.Murugappan

### Objective of the Activity

- To understand the fundamental principles of bridge engineering and structural behavior.
- To develop hands-on skills through bridge model construction.
- To study load distribution, stability, and structural efficiency in bridges.
- To promote teamwork, creativity, and problem-solving skills.
- To enhance interest in structural and transportation engineering.

### Outcome of the Activity

- Students gained practical understanding of bridge components and load transfer mechanisms.
- Participants improved their model-making and structural analysis skills.
- Students developed better teamwork and coordination abilities.
- The activity strengthened their ability to apply theoretical concepts to practical bridge design.
- Participants became more confident in analyzing real-world bridge structures.

## CIRCULAR



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**Department of Civil Engineering**  
**CLUB ACTIVITIES - CIVILIZERS CLUB**  
**CIRCULAR**

SMVEC / CIVIL / 2024-2025 / Event / 04

Date: 07.08.2024

The Department of Civil Engineering and Civilizers club is conducting a “Bridge Craft” at our Classroom on 22.02.2025 at 2.00 am to 4.50 pm. The II and III year B.Tech (Civil Engineering) students are asked to attend the session.

Club Activity Incharge  
(Mrs. J. Jayapriya)

Head of the Department  
(Dr.S.Sundararaman)

**Copy to:**

- 1) All Faculties
- 2) 2<sup>nd</sup> and 3<sup>rd</sup> Year Class Representative

PHOTO GALLERY



PHOTO GALLERY



## || Making models of Isometric view objects”

The workshop titled “Making Models of Isometric View Objects” was organized to enhance students’ understanding of engineering graphics and three-dimensional visualization techniques. The session focused on converting two-dimensional drawings into isometric views and constructing physical models to better interpret dimensions, proportions, and spatial relationships. Students created models of various geometric and structural objects using basic materials, applying principles of isometric projection and scale.

The activity emphasized accuracy, symmetry, and proper alignment while strengthening students’ visualization and drafting skills. It helped bridge the gap between theoretical engineering drawing concepts and practical model representation.

- Total Number of Participants : 52
- Year of students: I and II
- Date: 28/02/2025
- Venue : Seminar Hall, SMVEC
- Mode of Activity: Offline
- Event Coordinator: Dr. V.Murugappan

### Objective of the Activity

- To understand the principles of isometric projection and 3D visualization.
- To develop the ability to convert orthographic views into isometric models.
- To enhance spatial imagination and drafting skills.
- To promote accuracy and precision in engineering graphics.
- To provide hands-on experience in model construction.

### Outcome of the Activity

- Students improved their understanding of isometric drawing techniques.
- Participants developed better spatial visualization and interpretation skills.
- Students gained practical experience in constructing accurate 3D models.
- The activity strengthened their confidence in engineering graphics and design representation.

## CIRCULAR



SRI MANAKULA VINAYAGAR  
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**Department of Civil Engineering****CLUB ACTIVITIES - CIVILIZERS CLUB  
CIRCULAR**

SMVEC / CIVIL / 2024-2025 / EVENT / 05

Date: 26.02.2025

The Department of Civil Engineering and Civilizers club is conducting a “Making models of Isometric view objects” at our Classroom on 28.02.2025 at 2.00 am to 4.50 pm. The I and II year B.Tech (Civil Engineering) students are asked to attend the session.

Club Activity Incharge  
(Mrs. J. Jayapriya)

Head of the Department  
(Dr.S.Sundararaman)

**Copy to:**

- 1) All Faculties
- 2) 1<sup>st</sup> and 2<sup>nd</sup> Year Class Representative

PHOTO GALLERY



## **DIGITAL SURVEYING AND MAPPING TECHNIQUES**

The workshop titled “Digital Surveying and Mapping Techniques” was organized to provide students with practical knowledge of modern surveying instruments and advanced mapping technologies used in civil engineering projects. The session focused on the use of digital tools such as Total Station, GPS, and GIS software for accurate data collection, analysis, and map preparation. Emphasis was placed on improving precision, efficiency, and data management in land surveying and infrastructure planning. The workshop also highlighted the applications of digital surveying in road alignment, contour mapping, construction layout, and urban planning. Demonstrations and practical examples helped students understand real-time data acquisition and mapping procedures. The session enhanced students’ technical skills and awareness of contemporary surveying practices.

- Total Number of Participants : 52
- Year of students: II and III
- Date: 03/03/2025
- Venue : Seminar Hall, SMVEC
- Mode of Activity: Offline
- Event Coordinator: Dr. V.Murugappan

### **Objective of the Activity**

- To introduce students to modern digital surveying instruments and tools.
- To understand the working principles of Total Station, GPS, and GIS technologies.
- To develop skills in digital data collection and mapping procedures.
- To enhance accuracy and efficiency in surveying practices.
- To create awareness about the applications of digital mapping in civil engineering projects.

### **Outcome of the Activity**

- Students gained practical knowledge of digital surveying equipment and software.
- Participants developed the ability to collect, analyze, and interpret survey data accurately.
- Students improved their understanding of mapping techniques and spatial data management.
- The session strengthened their confidence in applying modern surveying technologies in real-world projects.

## CIRCULAR



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**Department of Civil Engineering**  
**CLUB ACTIVITIES - CIVILIZERS CLUB**  
**CIRCULAR**

SMVEC / CIVIL / 2024-2025 / EVENT / 06

Date: 03.03.2025

The Department of Civil Engineering and Civilizers club is conduct a Hands-on Training session on “Digital Surveying and Mapping Techniques” for the benefit of second-year and third-year Civil Engineering students. This event is scheduled to be held on 05.03.2025 and will be conducted by Er. N. Pavithran, Senior Engineer, Step Land Survey Consultants (Surveyors and Civil Engineers), Puducherry. The Hands-on Training session will take place in the Engineering Block Seminar Hall, 3rd floor, starting at 10:00 AM. All students are instructed to attend the session without fail.

Club Activity Incharge  
(Mrs. J. Jayapriya)

Head of the Department  
(Dr.S.Sundararaman)

**Copy to:**

- 1) All Faculties
- 2) 2<sup>nd</sup> and 3<sup>rd</sup> Year Class Representative

## POSTER



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Silver Jubilee Celebrations...

 **Internal Quality Assurance Cell**

**DEPARTMENT OF CIVIL ENGINEERING**

with

 **Indian Concrete Institute (ICI), Puducherry Centre**

Organizes

**HANDS ON TRAINING**

in

***Digital Surveying and Mapping Techniques***

 **Time : 10.00am**  
**Date : 05/03/2025**

 **Venue: Seminar Hall,  
SMVEC**



**Er. N. Pavithran,**  
Senior Engineer,  
Step Land Survey Consultants,  
(SURVEYORS & CIVIL ENGINEERS)  
Puducherry

PHOTO GALLERY

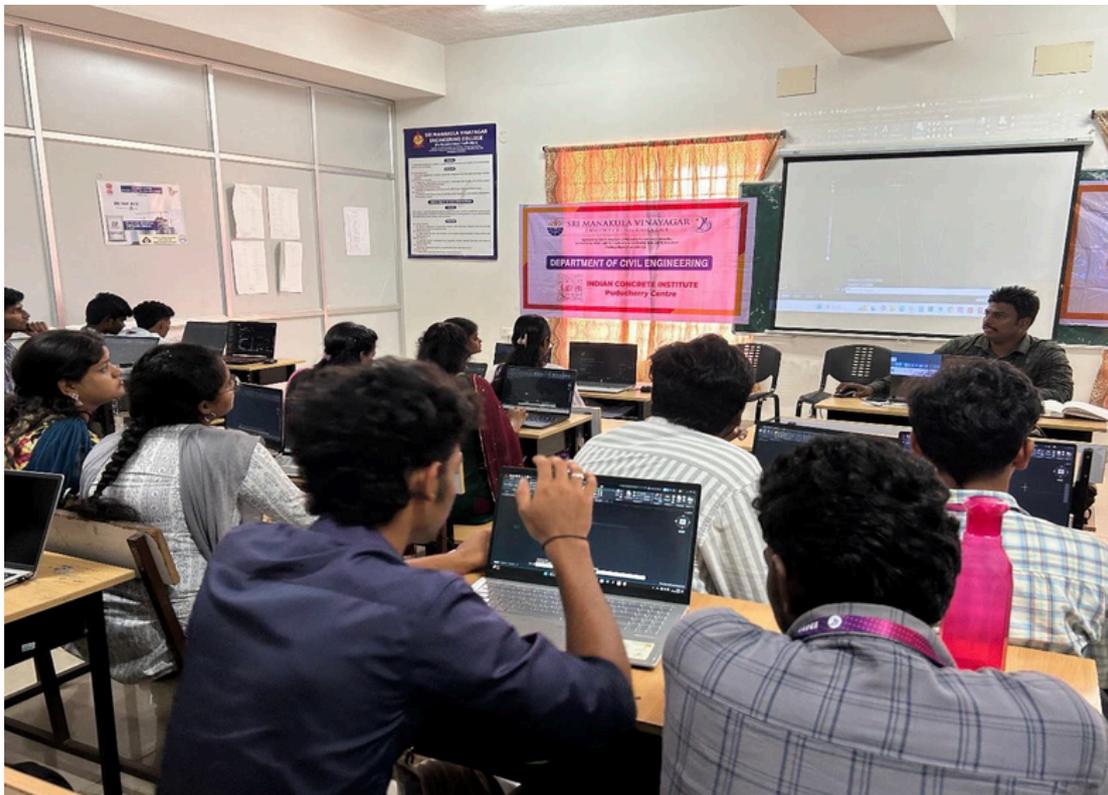


PHOTO GALLERY



## “A DAY AS A STRUCTURAL ENGINEER”

The event titled “A Day as a Structural Engineer” was organized to provide students with real-time exposure to the roles and responsibilities of a structural engineer in professional practice. The session simulated a typical workday, covering activities such as structural analysis, load calculations, design of beams and columns, preparation of drawings, site inspections, and coordination with architects and contractors. Emphasis was placed on decision-making, safety considerations, and adherence to design standards and codal provisions. The program also highlighted the use of structural design software and practical problem-solving approaches adopted in industry. Through interactive discussions and case-based scenarios, students gained insight into real-world challenges and professional ethics in structural engineering. The session enhanced their understanding of industry expectations and career pathways in structural design.

- Total Number of Participants : 52
- Year of students: II and III
- Date: 08/03/2025
- Venue : Seminar Hall, SMVEC
- Mode of Activity: Offline
- Event Coordinator: Dr. V.Murugappan

### Objective of the Activity

- To provide insight into the daily roles and responsibilities of a structural engineer.
- To understand the practical application of structural analysis and design concepts.
- To create awareness about industry standards, safety measures, and professional ethics.
- To familiarize students with structural design software and project coordination.
- To motivate students to pursue careers in structural engineering.

### Outcome of the Activity

- To provide insight into the daily roles and responsibilities of a structural engineer.
- To understand the practical application of structural analysis and design concepts.
- To create awareness about industry standards, safety measures, and professional ethics.
- To familiarize students with structural design software and project coordination.
- To motivate students to pursue careers in structural engineering.

## CIRCULAR



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**Department of Civil Engineering****CLUB ACTIVITIES - CIVILIZERS CLUB  
CIRCULAR**

SMVEC / CIVIL / 2024-2025 / EVENT / 07

Date: 07.03.2025

The Department of Civil Engineering and Civilizers club is conducting a Seminar on “A Day as a Structural Engineer” for the benefit of Second and Third Year Civil Engineering students on 08.03.2025 by Er. U. Umavathy, a Head- Structures, Design Collaborative Private Limited, Puducherry. The Seminar is planned to be conducted in our Engineering Block Seminar Hall in 3<sup>rd</sup> floor from 10.00 am to 12.30 pm and students are instructed to attend the session without fail.

Handwritten signature of Mrs. J. Jayapriya in blue ink.

Club Activity Incharge  
(Mrs. J. Jayapriya)

Handwritten signature of Dr. S. Sundararaman in blue ink.

Head of the Department  
(Dr.S.Sundararaman)

**Copy to:**

- 1) All Faculties
- 2) 2<sup>nd</sup> and 3<sup>rd</sup> Year Class Representative

## POSTER



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MADAGADIPET, PUDUCHERRY - 605 107



*Silver Jubilee Celebrations....*



**INTERNAL QUALITY ASSURANCE CELL**

**DEPARTMENT OF CIVIL ENGINEERING**

*with*



**ASSOCIATION OF CONSULTING CIVIL ENGINEERS  
(INDIA) PUDUCHERRY CENTRE**

**Organizes**

**A Seminar**

*on*

***"A Day as a Structural Engineer"***

*Time: 10:00 AM*  
*Date: 08/03/2025*

*Venue: Seminar Hall,  
SMVEC*



**Er.U.UMAVATHY**  
Head - Structures,  
Design Collaborative Private Limited,  
Puducherry

PHOTO GALLERY

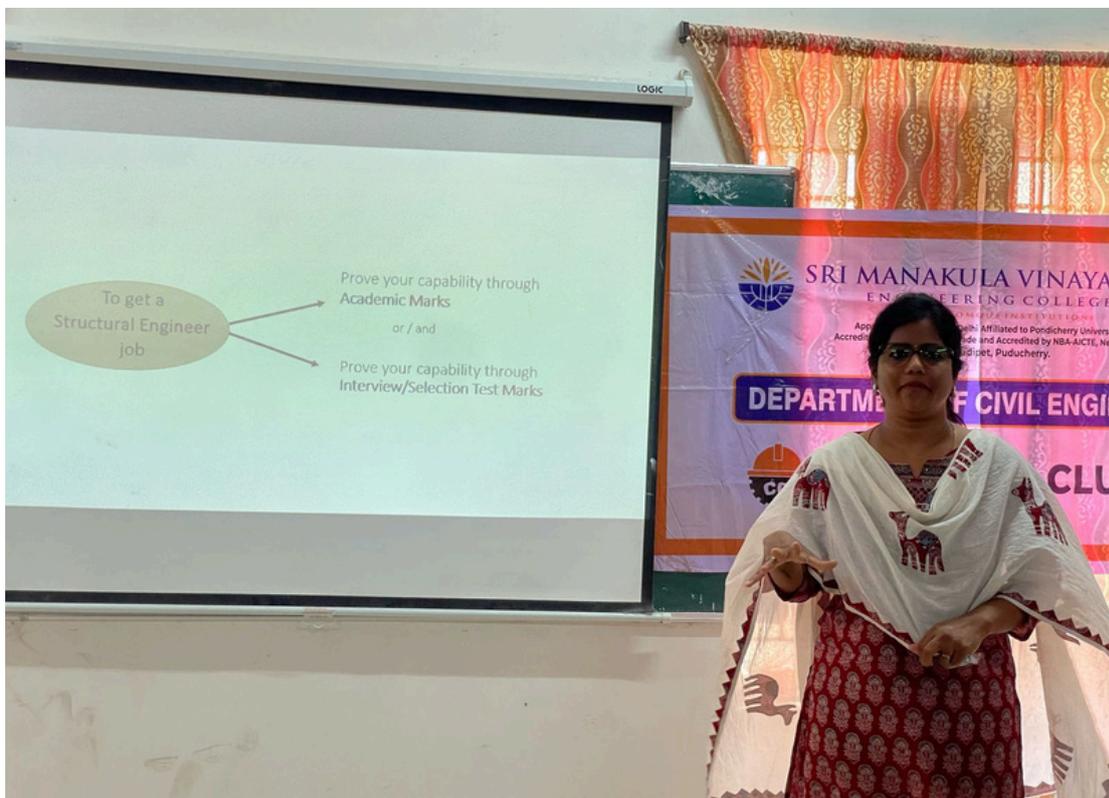
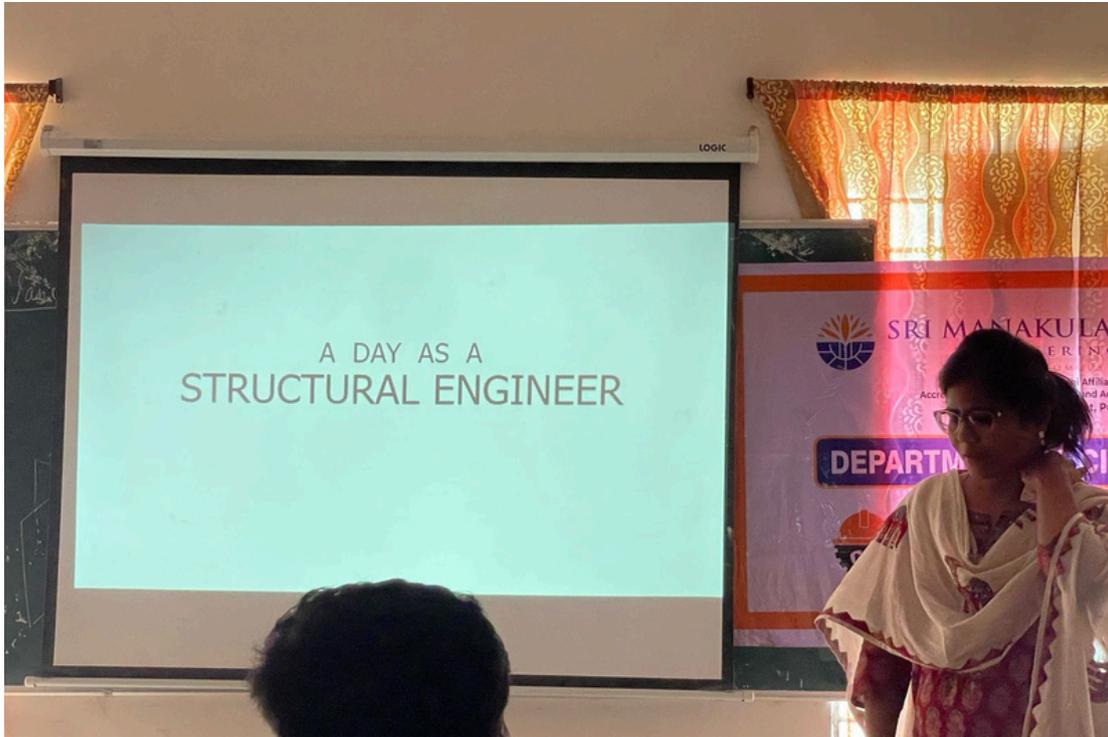


PHOTO GALLERY



## THE FUTURE OF SMART DESIGN AND CONSTRUCTION

The seminar titled “The Future of Smart Design and Construction” was organized to introduce students to emerging technologies transforming the construction industry. The session focused on innovative concepts such as Building Information Modeling (BIM), smart materials, sustainable construction practices, automation, and digital project management tools. Emphasis was placed on improving efficiency, safety, cost control, and environmental sustainability through technology-driven solutions.

The program also highlighted the integration of artificial intelligence, IoT, and data analytics in modern infrastructure development. Real-world case studies and industry examples helped students understand how smart technologies are reshaping design, planning, and execution in civil engineering projects. The session enhanced awareness of future trends and encouraged students to adapt to technological advancements in construction.

- Total Number of Participants : 39
- Year of students: II and III
- Date: 14/03/2025
- Venue : Seminar Hall, SMVEC
- Mode of Activity: Offline
- Event Coordinator: Dr. V.Murugappan

### Objective of the Activity

- To introduce emerging technologies in modern construction practices.
- To understand the role of BIM, automation, and smart materials in infrastructure development.
- To create awareness about sustainable and technology-driven construction methods.
- To enhance knowledge of digital tools used in design and project management.
- To motivate students to adapt to future industry trends.

### Outcome of the Activity

- Students gained knowledge of advanced construction technologies and smart systems.
- Participants understood the importance of sustainability and digital integration in design.
- Students developed awareness of industry innovations and future career opportunities.
- The session improved their readiness to adopt modern tools and techniques in civil engineering practice.

## CIRCULAR



SRI MANAKULA VINAYAGAR  
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(AN AUTONOMOUS INSTITUTION)



**Department of Civil Engineering**  
**CLUB ACTIVITIES - CIVILIZERS CLUB**  
**CIRCULAR**

SMVEC / CIVIL / 2024-2025 / EVENT / 08

Date: 11.03.2025

The Department of Civil Engineering and Civilizers club is conducting a Seminar on “AI in Civil Engineering: The Future of Smart Design and Construction” for the benefit of Second and Third Year Civil Engineering students on 14.03.2025 by Mr.Samuel Sivakumar, Associate Director, VLand Groups, India. The Seminar is planned to be conducted in our Engineering Block Seminar Hall in 3<sup>rd</sup> floor from 02.00 pm to 4.30 pm and students are instructed to attend the session without fail.

Club Activity Incharge  
(Mrs. J. Jayapriya)

Head of the Department  
(Dr.S.Sundararaman)

**Copy to:**

- 1) All Faculties
- 2) 2<sup>nd</sup> and 3<sup>rd</sup> Year Class Representative

## POSTER



**SRI MANAKULA VINAYAGAR**  
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(ACCREDITED BY NBA-AICTE, NEW DELHI, ACCREDITED BY NAAC WITH "A" GRADE)  
MADAGADIPET, PUDUCHERRY - 605 107



*Silver Jubilee Celebrations....*



**INTERNAL QUALITY ASSURANCE CELL**

**DEPARTMENT OF CIVIL ENGINEERING**

*with*



**ASSOCIATION OF CONSULTING CIVIL ENGINEERS (INDIA)**  
**PUDUCHERRY CENTRE**

**Organizes**

**A Seminar**

*on*

**“AI in Civil Engineering: The Future of Smart  
Design and Construction”**

*Time: 02:00 PM*

*Date: 14/03/2025*

*Venue: Seminar Hall,*

*SMVEC*



**Mr. Samuel Sivakumar**

*Associate Director,*

*VLand's Group,*

*India*

PHOTO GALLERY



## MODEL MAKING OF 3D RESIDENTIAL BUILDING

The workshop titled “Model Making of 3D Residential Building” was organized to provide students with practical exposure to architectural planning and structural concepts through hands-on model development. The session focused on planning a residential building layout, understanding space utilization, structural components, and aesthetic design considerations. Students constructed 3D models using basic materials while applying concepts of building planning, elevation, and structural arrangement. The activity emphasized accuracy, proportion, structural stability, and detailing of elements such as columns, beams, slabs, doors, windows, and staircases. It encouraged creativity, teamwork, and practical application of theoretical knowledge in building design.

- Total Number of Participants : 52
- Year of students: I and II
- Date: 14/03/2025
- Venue : Seminar Hall, SMVEC
- Mode of Activity: Offline
- Event Coordinator: Dr. V.Murugappan

### Objective of the Activity

- To introduce emerging technologies in modern construction practices.
- To understand the role of BIM, automation, and smart materials in infrastructure development.
- To create awareness about sustainable and technology-driven construction methods.
- To enhance knowledge of digital tools used in design and project management.
- To motivate students to adapt to future industry trends.

### Outcome of the Activity

- Students gained knowledge of advanced construction technologies and smart systems.
- Participants understood the importance of sustainability and digital integration in design.
- Students developed awareness of industry innovations and future career opportunities.
- The session improved their readiness to adopt modern tools and techniques in civil engineering practice.

## CIRCULAR



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ENGINEERING COLLEGE  
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**Department of Civil Engineering**

**CLUB ACTIVITIES - CIVILIZERS CLUB**  
**CIRCULAR**

SMVEC / CIVIL / 2024-2025 / Event / 09

Date: 26.03.2025

The Department of Civil Engineering and Civilizers club is conducting a “**Model making of 3D residential building**” at our Classroom on 29.03.2025 at 2.00 am to 4.50 pm. The I and II year B.Tech (Civil Engineering) students are asked to attend the session.

Club Activity Incharge  
(Mrs. J. Jayapriya)

Head of the Department  
(Dr.S.Sundararaman)

Copy to:

- 1) All Faculties
- 2) 1<sup>st</sup> and 2<sup>nd</sup> Year Class Representative

PHOTO GALLERY

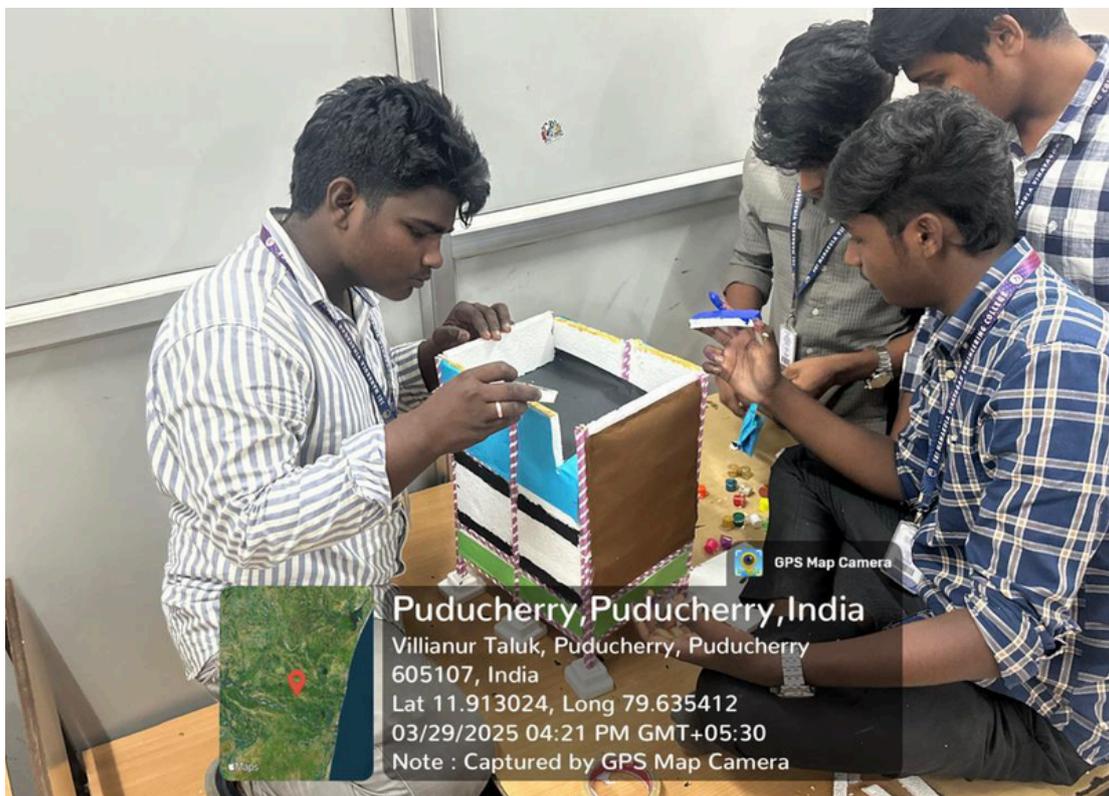
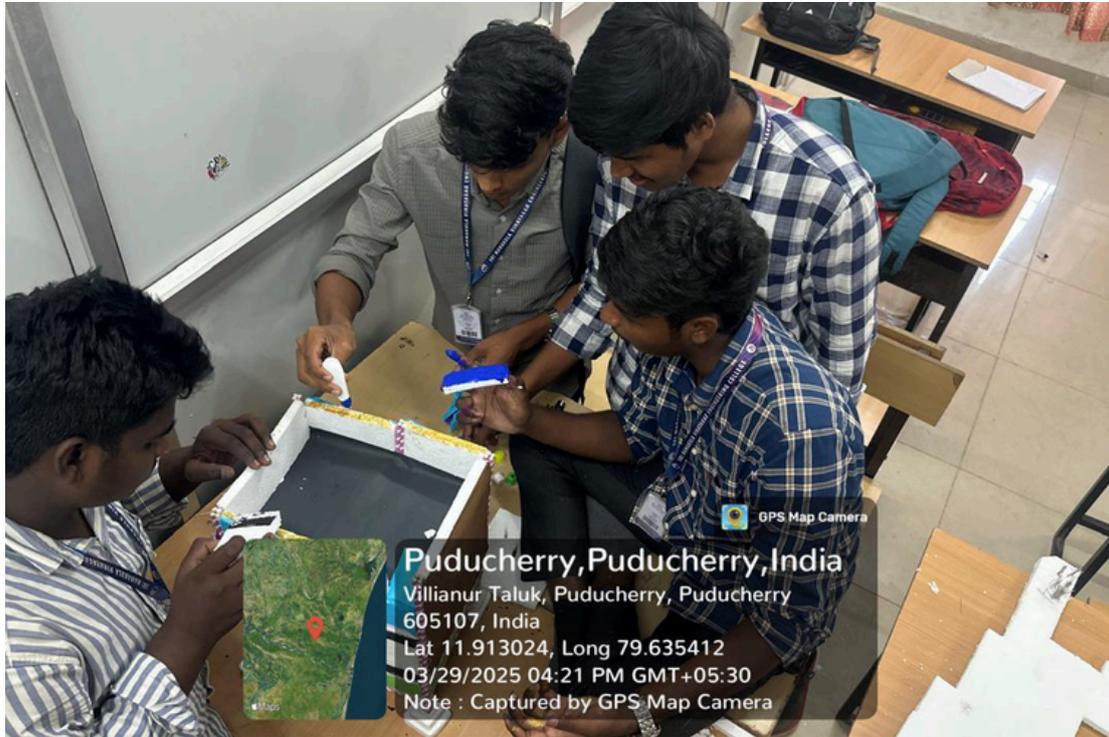
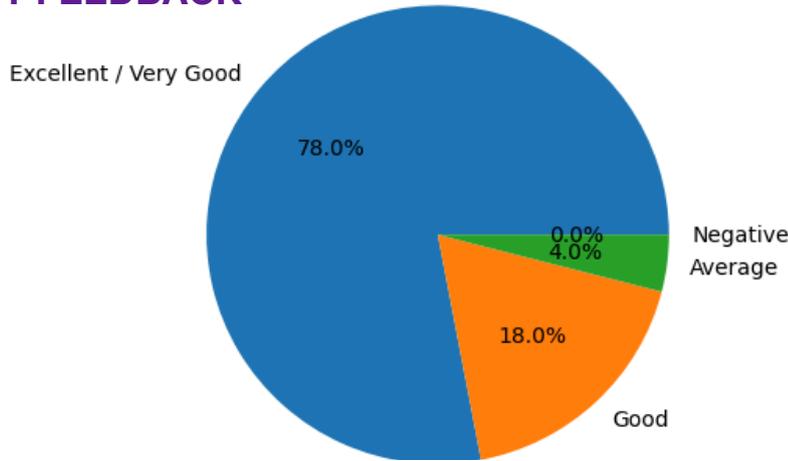


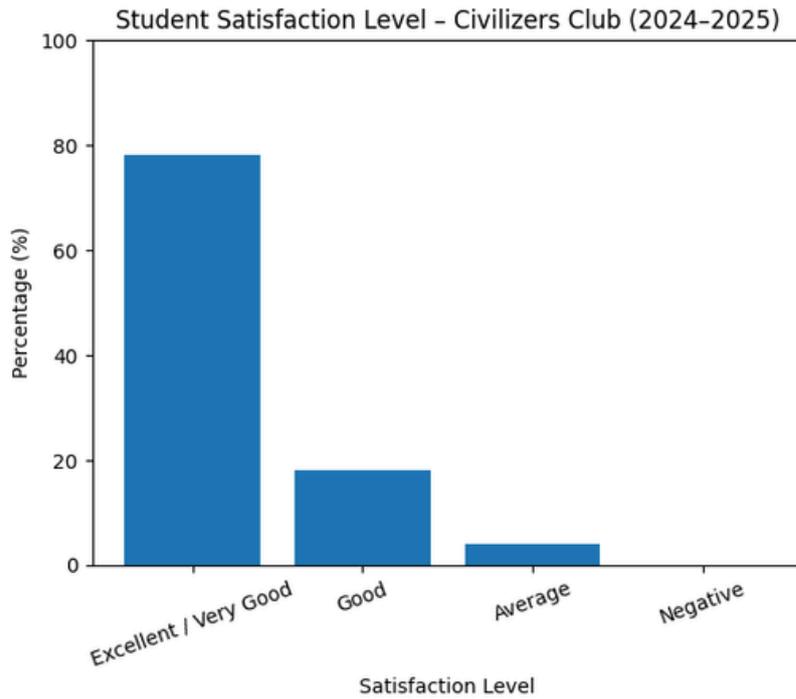
PHOTO GALLERY



STUDENT FEEDBACK



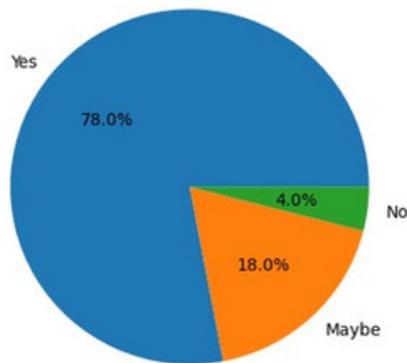
The pie chart depicts the overall satisfaction level of students regarding the Civilizers Club activities conducted during the academic year 2024–2025. It is observed that 78% of students rated the activities as Excellent or Very Good, indicating a high level of satisfaction. Only 4% rated the activities as Average, and no negative feedback was recorded.



The bar chart represents the average ratings given by students for various effectiveness parameters. The ratings are consistently above 4.4 out of 5, highlighting the club’s strong performance in event organization, hands-on exposure, skill development, and teamwork enhancement. The highest rating was observed for hands-on exposure, reflecting the practical orientation of the club activities.

## STUDENT FEEDBACK

Recommendation of Club Activities by Students



The pie chart shows that 78% of students are willing to recommend the Civilizers Club activities to other students, while 18% expressed conditional interest. This clearly demonstrates the positive perception and value of the club among students

## I FUTURE PLAN OF ACTION

- Planning to organize an Intra-Department Structural Model Challenge by mentoring first-year students through the Civilizers Club members.
- A guest lecture will be conducted on “Role of Smart Infrastructure and Sustainable Technologies in Future Civil Engineering Applications.”
- A hands-on activity will be organized where students assemble and design simple structural models (such as truss bridges, tower structures, or load-bearing frames) to understand basic engineering principles.
- The event will conclude with a Structural Model Testing Competition, where the models will be evaluated based on strength, stability, design efficiency, and innovation.

